IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| Applicant(| s): Mark T. Marshall et al. |) Art Unit: |
|------------|-----------------------------|---------------------------|
| Serial No. | : |)) Examiner: \ |
| Filed: | Herewith |)) Docket: P-20091.00 |
| For: NO | VEL IMPLANTABLE LEAD INCL | LUDING SENSOR |

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. The majority of the materials enclosed are the result of a [[comprehensive]] patent database search for matters generally related to sensors[[; the search was conducted by Medtronic personnel in early 2001]].

Consideration of each of the documents listed on the attached Form 1449 is respectfully requested. Pursuant to the provisions of M.P.E.P. §609, Applicant further requests that a copy of the Form 1449, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Respectfully submitted,

Date: 01/16/04

Girma Wolde-Michael

Reg. No. 36,724

Telephone: (763) 514-6402

Customer No. 27581

| Date | Mailed: | | |
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| FORM PTO-1449 | | ATTY. DOCKET NO.: | SERIAL NO: |
|---|---|--------------------------|---------------|
| (Rev. 2-32) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | P20091.00 | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | | |
| , | | APPLICANT: Mark T. Ma | rshall et al. |
| _ | | FILING DATE: Herewith | GROUP: |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE ISSUED | INVENTOR NAME | U.S. CLASS | U.S. SUB- CLASS | FILING DATE IF APPROPRIATE |
|---------------------|----|--------------------|----------------|----------------------|---------------|-----------------------|----------------------------------|
| | AA | 6,163,723 | 12/19/00 | Roberts et al. | | | · |
| | AB | 6,070,103 | 05/30/00 | Ogden | | | |
| | AC | 6,038,480 | 03/14/00 | Hrdlicka et al. | | | |
| | AD | 6,038,475 | 03/14/00 | Sikorski et al. | | | |
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| | AU | 5,917,346 | 06/29/99 | Gord | |
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| | AV | 5,911,738 | 06/15/99 | Sikorski et al. | |
| | AW | 5,902,326 | 05/11/99 | Lessar et al. | |
| | AX | 5,899,927 | 05/04/99 | Ecker et al. | |
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| | ВВ | 5,812,802 | 09/22/89 | Bahout et al. | |
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| | ВІ | 5,773,270 | 06/30/98 | D'Orazio et al. | |
| | BJ | 5,751,154 | 05/12/98 | Tsugai | |
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| | во | 5,722,998 | 03/03/98 | Prutchi et al. | |
| | ВР | 5,722,996 | 03/03/98 | Bonnet et al. | |
| | BQ | 5,715,827 | 02/10/98 | Corl et al. | · · · |
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| | вх | 5,628,777 | 05/13/97 | Moberg et al. | |

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| BY | 5,593,430 | 01/14/97 | Renger | | |
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| BZ | 5,569,883 | 10/29/96 | Walter et al. | | |
| CA | 5,564,434 | 10/15/96 | Halperin et al. | | |
| СВ | 5,549,652 | 08/27/96 | McClure et al. | | |
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| CD | 5,518,001 | 05/21/96 | Snell | | · |
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| CG | 5,497,772 | 12/12/96 | Schulman et al. | | |
| СН | 5,496,361 | 03/05/96 | Moberg et al. | | |
| CI | 5,490,323 | 02/13/96 | Thacker et al. | | |
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| СК | 5,474,754 | 12/12/95 | Saxton et al. | | |
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| CQ | 5,423,869 | 06/13/95 | Poore et al. | | · |
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| DA | 5,342,404 | 08/30/94 | Alt et al. | | |
| DB | 5,336,253 | 08/09/94 | Gordon et al. | | |
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A:1449.FRM 5-92 (Form PTO-1449)

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| DC | 5,336,243 | 08/09/94 | Shaldach | |
| DD | 5,330,505 | 07/19/94 | Cohen | |
| DE | 5,325,870 | 07/05/94 | Kroll et al. | |
| DF | 5,324,326 | 06/28/94 | Lubin | |
| DG | 5,324,316 | 06/28/94 | Schulman et al. | |
| DH | 5,316,001 | 05/31/94 | Ferek-Petric et al. | |
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| DJ | 5,293,879 | 03/15/94 | Vonk et al. | · |
| DK | 5,282,839 | 02/01/94 | Roline et al. | |
| DL | 5,275,171 | 01/04/94 | Barcel | |
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| DQ | 5,228,176 | 07/20/93 | Bui et al. | |
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| DW | 5,166,678 | 11/24/92 | Warrior | |
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| EF | 5,085,213 | 02/04/92 | Cohen | |
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| EG | 5,076,271 | 12/31/91 | Lekholm et al. |
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| EH | 1 | 11/19/91 | Begemann et al. |
| EI | 5,058,586 | 10/22/91 | Heinze |
| EJ | 5,040,538 | 08/20/91 | Mortazavi et al. |
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| EL | 5,025,786 | 06/25/91 | Siegel |
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| EN | 5,016,631 | 05/21/91 | Hogrefe |
| EO | 5,003,976 | 04/02/91 | Alt |
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| EQ | 4,984,572 | 01/15/91 | Cohen |
| ER | 4,967,755 | 11/06/90 | Pohndorf |
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| EW | 4,936,304 | 06/26/90 | Kresh et al. |
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| · EY | 4,907,022 | 03/06/90 | Myers |
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| FH | 4,860,751 | 08/29/89 | Callaghan |
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| FL | 4,827,933 | 05/09/89 | Koning et al. | | |
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| FN | 4,815,469 | 03/28/89 | Cohen et al. | | |
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| FU | 4,787,389 | 11/29/88 | Tarjan | | |
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| GA | 4,730,389 | 03/15/88 | Baudino et al. | | |
| GB | 4,722,342 | 02/02/88 | Amundson | | |
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| GD | 4,712,555 | 12/15/87 | Thornander et al. | | |
| GE | 4,708,143 | 11/24/87 | Schroeppel | | |
| GF | 4,671,288 | 06/09/87 | Gough | | |
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| GH | 4,600,017 | 07/15/86 | Schroeppel | | |
| GI | 4,592,364 | 06/03/86 | Pinto | | |
| GJ | 4,566,456 | 01/28/86 | Koning et al. | | |
| GK | 4,543,955 | 10/01/85 | Schroeppel | | |
| GL | 4,539,992 | 09/10/85 | Calfee et al. | | |
| GM | 4,538,262 | 08/27/85 | Sinniger et al. | | |
| GN | 4,535,401 | 08/13/85 | Penn | | |
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| GO | 4,534,025 | 08/06/86 | Floyd | |
|----|-----------|----------|----------------------|--|
| GP | 4,519,401 | 05/28/85 | Ko et al. | |
| GQ | 4,494,950 | 01/22/85 | Fischell | |
| GR | 4,485,813 | 12/04/84 | Anderson et al. | |
| GS | 4,467,807 | 08/28/84 | Bornzin | |
| GT | 4,432,372 | 02/21/84 | Monroe | |
| GU | 4,422,066 | 12/20/83 | Belcourt et al. | |
| GV | 4,420,753 | 12/13/83 | Meyer-Ebrecht et al. | |
| GW | 4,417,306 | 11/22/83 | Citron et al. | |
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| GZ | 4,399,820 | 08/23/83 | Wirtzfeld et al. | |
| НА | 4,364,397 | 12/21/82 | Citron et al. | |
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| HG | 4,265,252 | 05/05/81 | Chubbuck et al. | |
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| HI | 4,211,238 | 07/08/80 | Shu et al. | |
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| HQ | 4,077,030 | 02/28/78 | Helava | |
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| н | IU | 3,959,772 | 05/25/76 | Wakasa et al. |
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| H | ١٧ | 3,958,558 | 05/25/76 | Dunphy et al. |
| Н | W | 3,942,536 | 03/09/76 | Mirowski et al. |
| H | łΧ | 3,938,144 | 02/10/76 | Pederson et al. |
| H | łY | 3,922,490 | 11/25/75 | Pettis |
| F | ΙZ | 3,891,914 | 06/24/75 | Akita |
| | Α | 3,857,399 | 12/31/74 | Zacouto et al. |
| | В | 3,805,795 | 04/23/74 | Denniston et al. |
| Į. | С | 3,742,473 | 06/26/73 | Hadden |
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|----|--------------------|--------------------------|---------|---------------|-----------------------|-------|--------|
| | | | | | | YES | NO |
| 11 | EP 1 040 848 A1 | 04.10.00 | EP | A61N | 1/365 | | |
| IJ | EP 0 235 482 | 09.09.87 | EP | A61L | 33/00 | | |
| IK | EPO 0 356 603 | 18.11.93 | EP | A61B | 5/04 | | |
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| IM | WO 89/01803 | 09.03.89 | wo | A61N | 1/362 | | |

OTHER DOCUMENTS (Including Author, Title, Date Pertinent Pages, Etc.)

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